USpace 4210

Multi-function Rack

We engineer for a sustainable tomorrow.

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Multi function—comms and server rack build

Comprising of four corner posts, top and bottom end frame, depth support rails, front and rear 19” mounting angles, front infill panels (800w models), swing handle lockable front and rear door (available in a combination of options, lockable side panels, top cover with knock out blanks for cable entry and a set of four transport castors (not load bearing).

The USpace 4210 is one of the premium ranges of racks from USystems. Smart design and state of the art manufacturing facilities guarantees the unbeatable quality, style and innovation associated with USystems.

- Available in datacomms and server rack configurations
- 3307.0lbs/1500kg load bearing
- *1102lbs/500kg dynamic load
- 5 heights, 2 widths, 4 depths as standard
- Rigid bolted construction
- Superior venting standard AirTech door with 80% airflow
- Superior venting AirTech V door option with 86% airflow
- Multi depth mounting
- Multi cable access through top and base
- Quick release cladding
- Left or right hand hinged doors
- Lockable side panels
- Houses all major server brands
- ColdLogik compliant

The robust structure adapts itself to many applications and markets. The 4210 frame provides the perfect platform for installers and end users alike.

*Dynamic Load Rating is the total rolling mass of the rack and includes the rack frame, cladding and any fitted equipment and accessories and is subject to the load being evenly distributed at 20U height and below. Dynamic load relates to the movement of a rack within the same data centre on a smooth floor clear of any obstacles. Not suitable for transportation on a vehicle when loaded to this weight.

Technical Information

Multi function rack sizes with standard cladding

Heights	Available Widths		Available Depths footprint/with cladding			
24U 47.24”/1200mm	23.62” 600mm	31.50” 800mm	23.62”/25.98” 600mm/660mm	31.50”/33.86” 800mm/860mm	39.97”/41.73” 1000mm/1060mm	47.24”/49.60” 1200mm/1260mm
30U 57.72”/1466mm						
36U 68.23”/1733mm						
42U 78.70”/1999mm						
48U 89.21”/2266mm						

Shipping Dimensions

Rack Dimensions			Rack and Pallet Dimensions		
Height (mm)	Width (mm)	Depth (mm)	Height (mm)	Width (mm)	Depth (mm)
24U	600mm	600/800/1000	1360	800	1200
	800mm		1360	1000	1200
	600/800	1200	1360	900	1400
30U	600	600/800/1000	1627	800	1200
	800		1627	1000	1200
	600/800	1200	1627	900	1400
36U	600	600/800/1000	1893	800	1200
	800		1893	1000	1200
	600/800	1200	1893	900	1400
42U	600	600/800/1000	2160	800	1200
	800		2160	1000	1200
	600/800	1200	2160	900	1400
48U	600	600/800/1000	2430	800	1200
	800		2430	1000	1200
	600/800	1200	2430	900	1400
For specific exports in containers the below dimensions are used					
42U	600	1200	2160	700	1300
48U			2430	700	1300

Materials and finish

Frame
1.2mm &1.5mm CR4 steel

AirTech, glass and steel doors
1.0mm, 1.2 & 2.0mm CR4 steel
4.0mm toughened clear glass

Side panels
1.0mm & 1.2mm CR4 steel

Top cover
1.2mm CR4 steel

Depth support rails
1.5mm CR4 steel

Mounting angles
2.0mm CR4 steel

Infills for 800w
1.5mm CR4 steel

Black RAL 9005
Standard

Light grey RAL 7035
Option with extended lead time

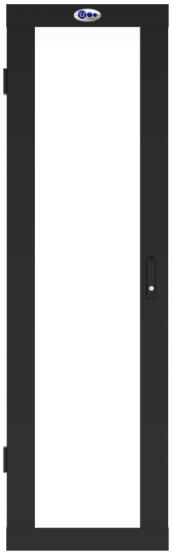
Polyester semi gloss powder coat
(Other colour options are available on request)

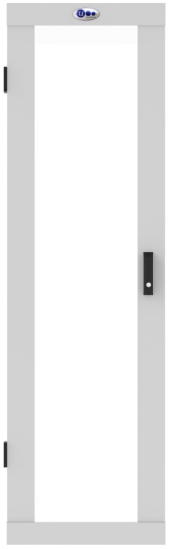
NB: *Internal specification —mounting angles and depth support rails come in Black RAL 9005 as standard regardless of cladding colour option unless specified otherwise at time of ordering.*

Rack manufactured to IEC 60297-3 and EIA STD 310 for panels and racks housing electronic equipment

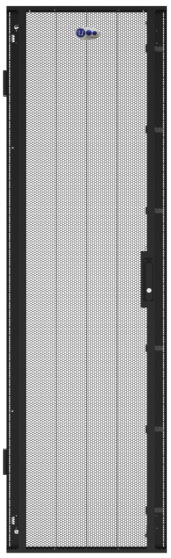
Door and locking options

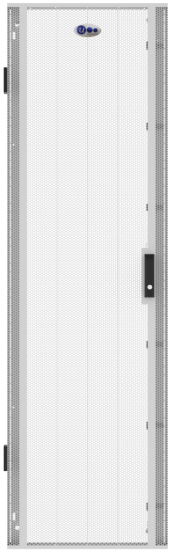
Glass door



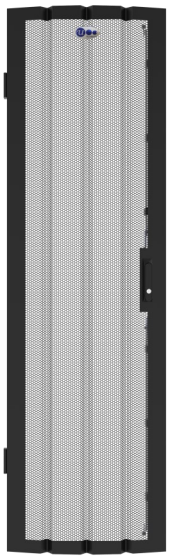


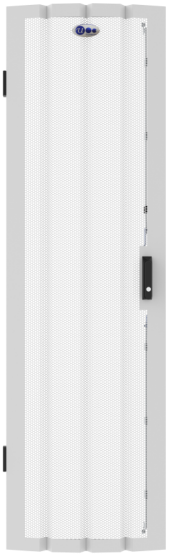
AirTech vented door (80% airflow)



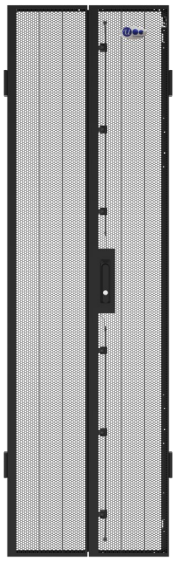


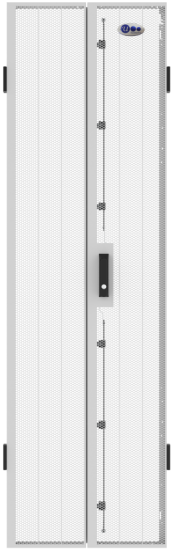
AirTech 'V' vented door (86% airflow)





AirTech wardrobe door





Solid door

Single point swing handle as standard

Combination key override swing handle (four point locking and six point on wardrobe doors)

Proximity smart card/fob reader

MIFARE

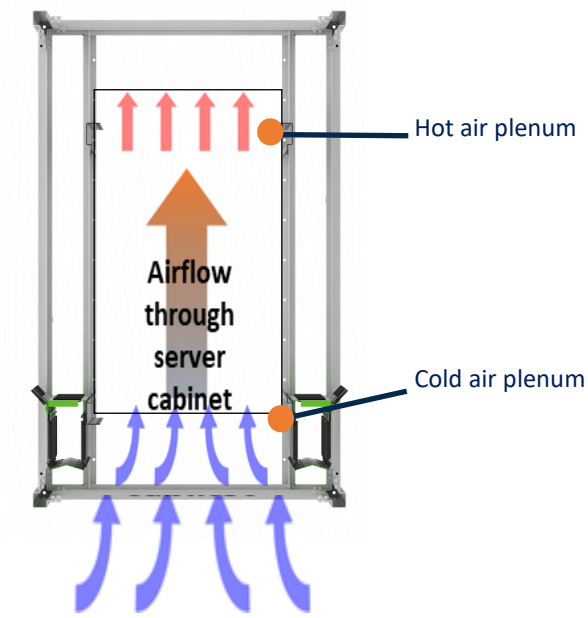
Keypad

Electronic intelligent locking with various readers and styles

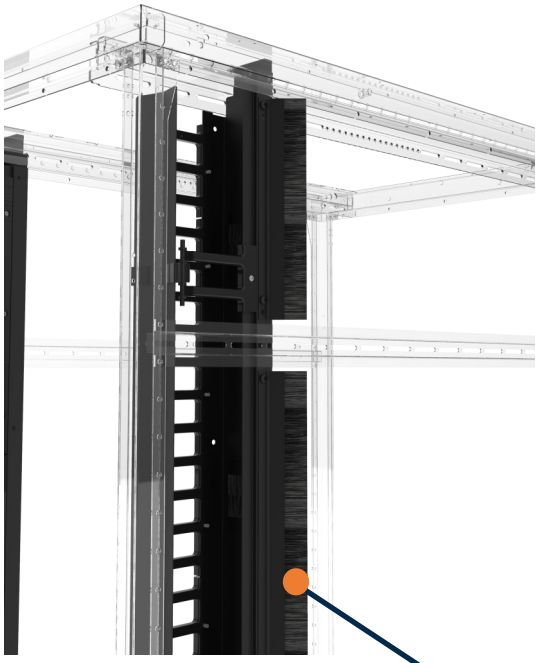
Anti-air recirculation kit

It is universally understood that preventing hot air recirculating internally from the back of the rack has many upsides, including prevention of hot spots and a reduction in energy consumption. The 5210 anti-air recirculation kit comprises vertical brush strip to each side of the 19” mounting angles and 2 x horizontal blanking panels above and below the 19” mounting angles.

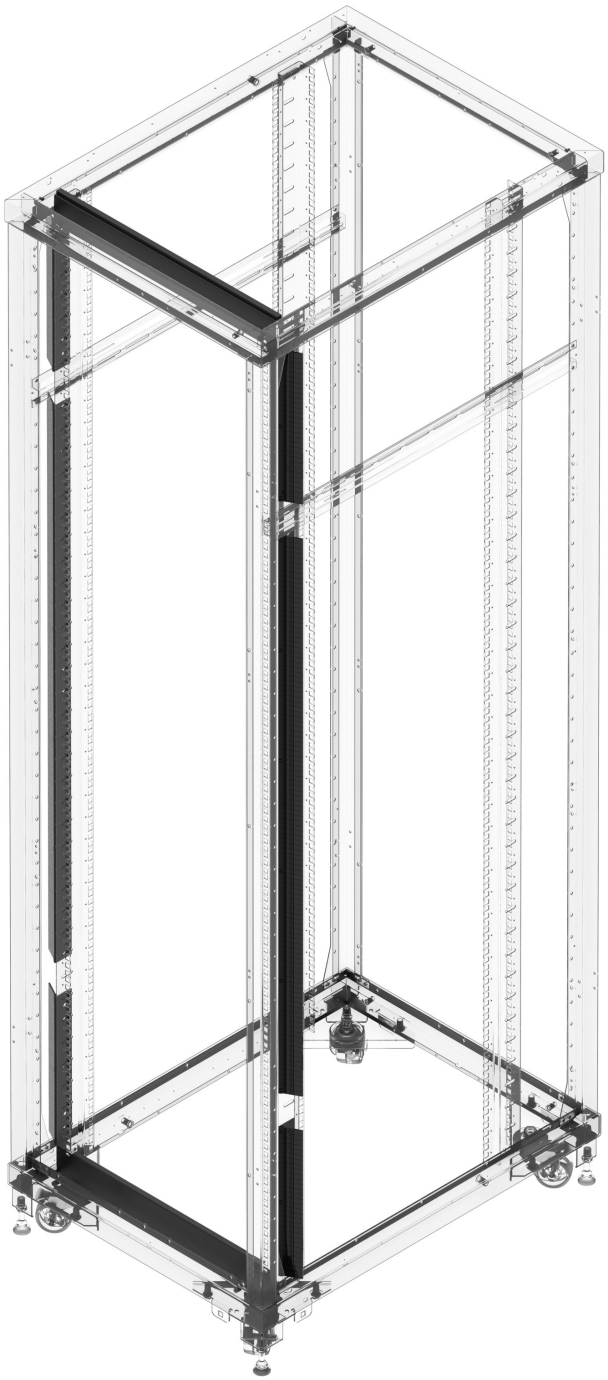
To help achieve best practice—fit EaziBlank blanking panels (opposite page) into unused U spaces within the rack to help minimise hot air recirculation.



Prevention of air recirculation



Brush strip air baffle kit on infills



Enhanced airflow management can be achieved with the addition of 4210 brush strip sealing kits which create a seal to prevent hot air re-circulating to the front 19” plenum.

Thermal management

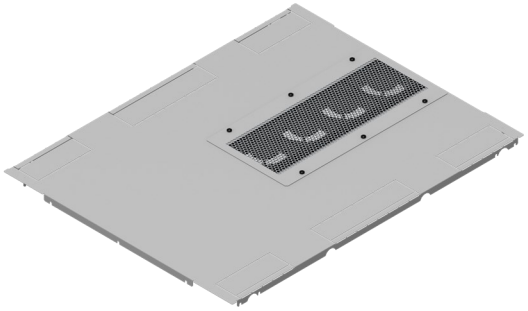
EaziBlank panels

Fitting 19” blanking or EaziBlank panels (and deploying rack air anti-recirculation kits) helps to avoid air mixing and recirculation within the rack space which in turn helps to maximise the cooling infrastructure effectiveness by delivering cool air to the equipment and not allowing it to bypass through empty U spaces.

Brush strip

19” blanking panel with brush strip enabling cable entry without compromise to air flow management.

Top cover fan tray



Retrofittable zero U top cover fan trays remove heat from rack and can be thermostatically controlled if required

Shelving

Adjustable shelf

Adjustable shelves with maximum load bearing of 100kg, these versatile shelves adjust to suit rail depths 450mm-750mm & 650mm-950mm.

Cantilever shelf

Easy to fit shelving solution suitable for mounting non 19” equipment. Mount directly to the 19” mounting angles with cage nut fixings (included).

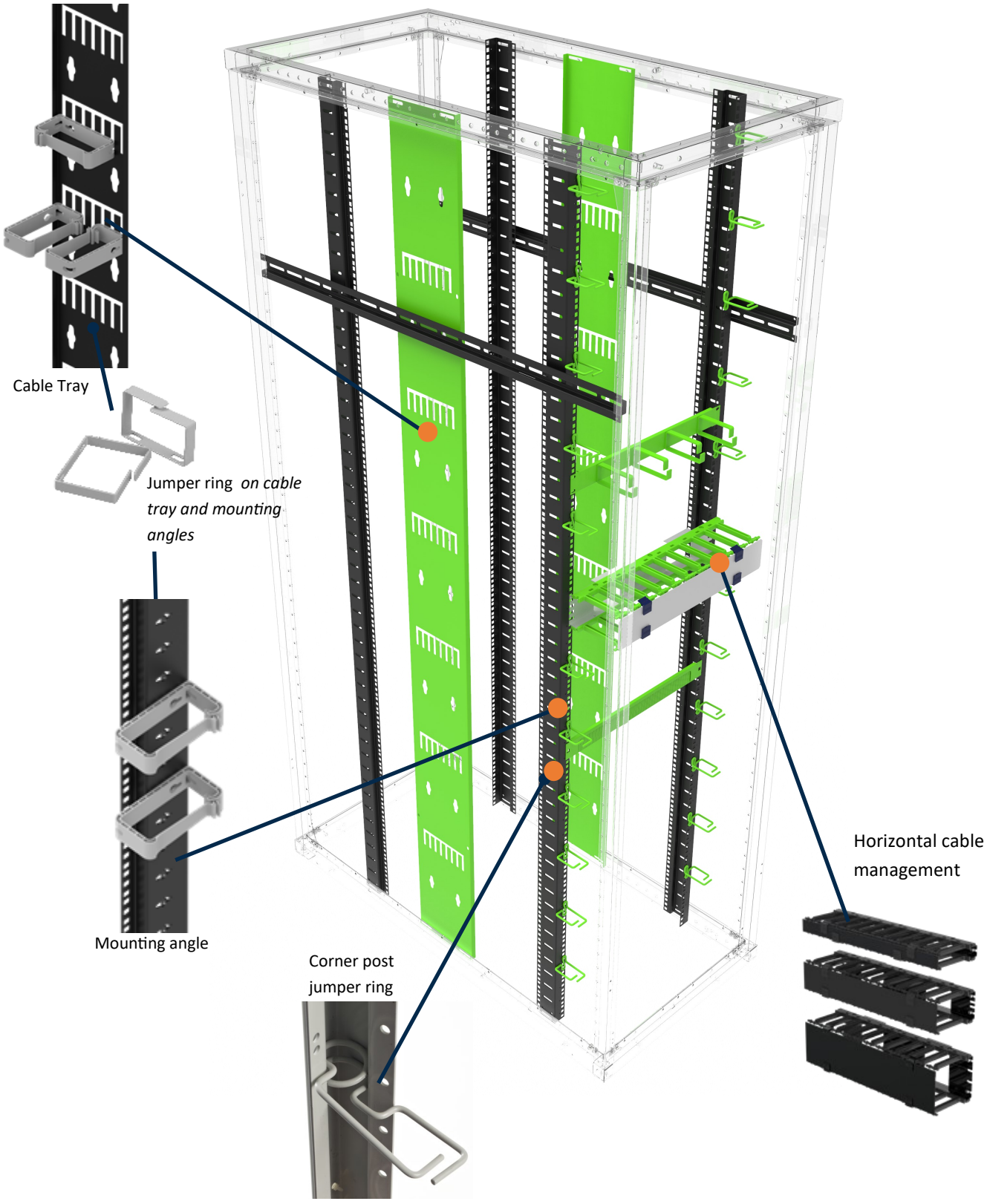
Chassis runners

Simple and cost effective alternative to cantilever and fixed shelving. Easy to fit and allows you to support and withdraw full width products with safety.

Cable management

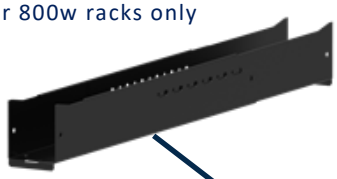
600mm wide data comms rack

Vertical cable management options



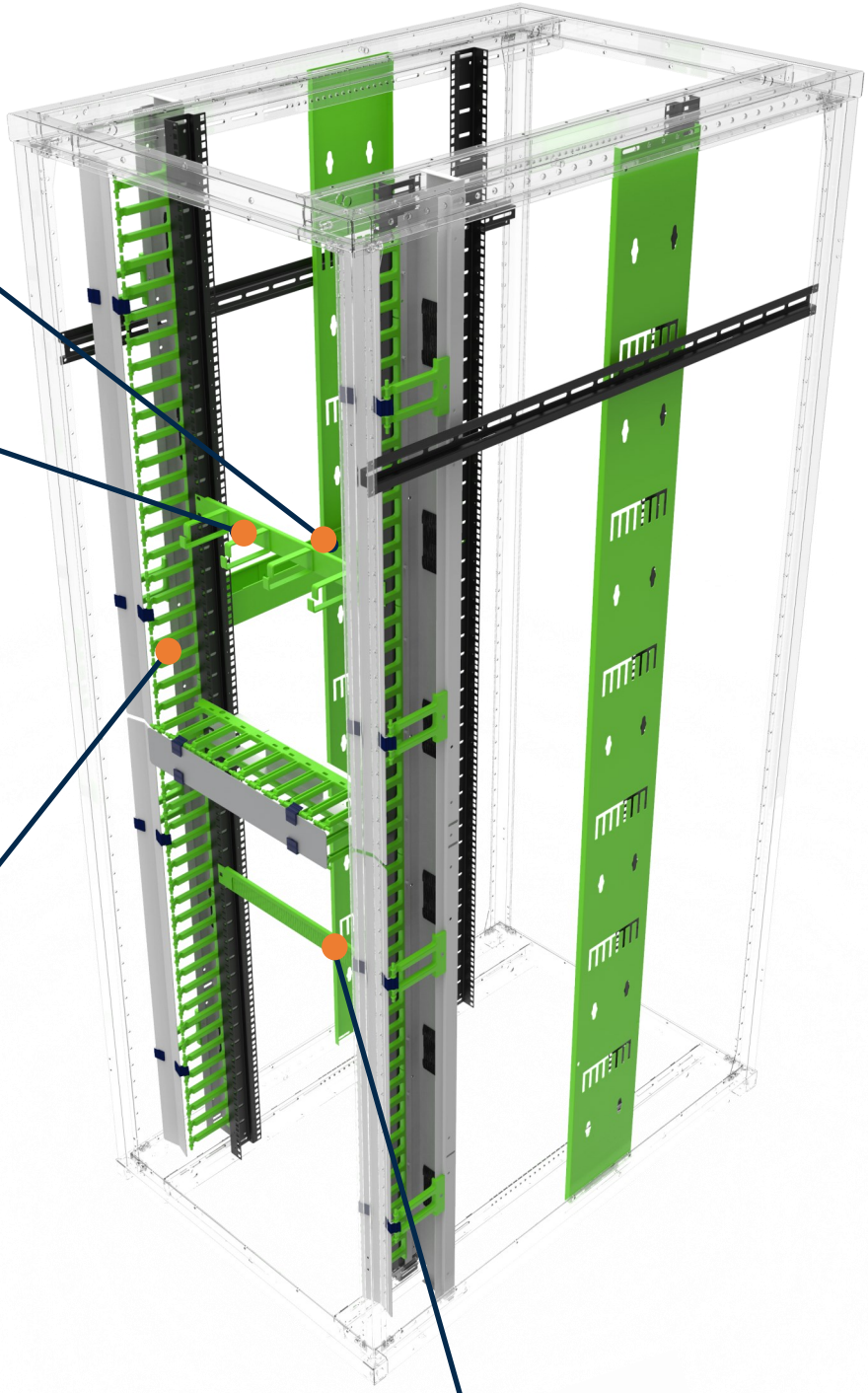
800mm wide data comms rack

Front to rear cable troughs
for 800w racks only



4 loop jumper ring panel

Vertical cable fingers
with open hinged cover



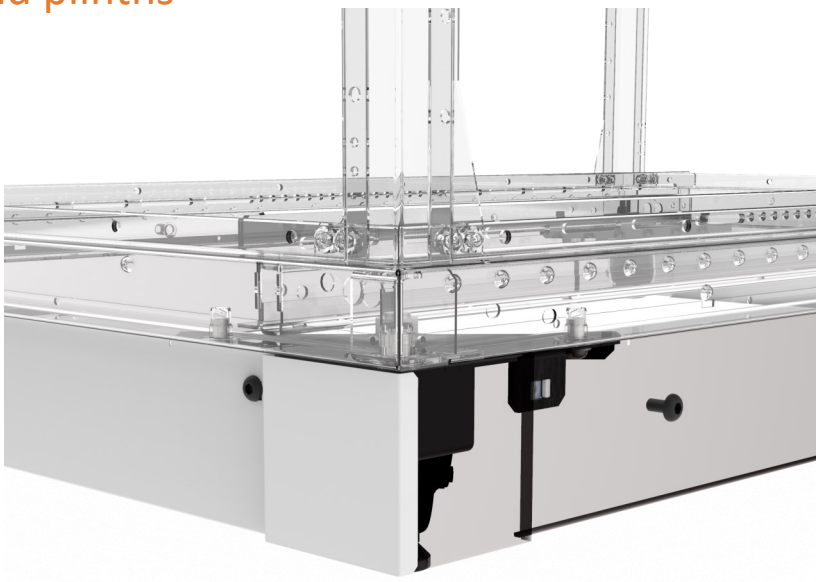
Versatile jumper ring which can be mounted in a multitude of useful positions within the rack, for example on the front or sides of the 19" rails and on the vertical cable trays.

19" brush strip panel

19" blanking panel with brush strip enabling cable entry without compromise to air flow management.

Castors, feet and plinths

Fixed plinth



Plinth kits are designed to help close-off the gap between the rack and the floor for racks with castors/levelling feet fitted. These kits comprise a pair of front and rear kick plates and side kick plates and fitting these adds to the efficient use of air and to the aesthetics of the 4210 rack when on castors/levelling feet by hiding the incoming services into the rack base. These are not load bearing plinths.

Castors with levelling feet

Levelling feet

Rack levelling feet have a weight loading of 300kg

With castors and levelling feet

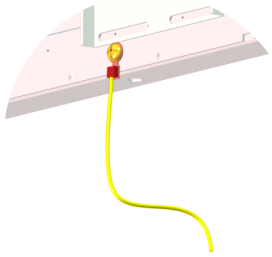
These castor kits allow for the movement of the USpace 4210 rack with a total mass of 500kg*. The base adjustable foot kits allow the 4210 racks to be levelled on an uneven floor surface.

Earthing

Earth bonding kit

Standard cladding or wardrobe door earth bonding kit

Clean earth



Copper bus bar

Horizontal and vertical 3mm and 5mm thick solid copper options.
Clearance holes for M6 fasteners

ESD kit

Comprising M6 stud, wrist bank and grounding cable

Power

Power distribution units

Broad range of standard models ranging from 4 to 16 way configurations 13amp, IEC, 16amp, 32amp and specials

Intelligent power

Full range of build configurations from overall power monitoring to link legacy interface units, remote monitoring and control

Uninterruptable power supplies

Monitors power conditions constantly maintaining and maintaining and regulating voltage and frequency

Up to 95% efficiency in online double conversion mode and 98% in high-efficiency mode

Further Documentation

For additional information, please refer to the below. Available through your USystems representative, or our central inquires line at sales@usystems.com

Complete Product Range	Available at www.usystems.com
Operations and Maintenance Manual	Please contact sales@usystems.com
Troubleshooting Guide	Please contact sales@usystems.com
Product Datasheet	Available at www.usystems.com

USpace 4210

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